

STANDARD PERMIT TO CONSTRUCT APPLICATION FORM FOR ROCK CRUSHING PLANTS

The purpose of this source-specific application form is to assist the Applicant in providing the information required by the Idaho Department of Environmental Quality (DEQ) in issuing a Standard Permit to Construct. **All** information requested below must be supplied in order for DEQ to issue a Standard Permit to Construct.

GENERAL INFORMATION

- 1) Company and Division Name _____
- 2) Mailing Address _____
City _____ County _____ State _____ Zip Code _____
- 3) Proposed Initial Location of Plant _____
- 4) Number of Full-Time Employees _____
- 5) Person to Contact/Title _____
- 6) Telephone Number _____
- 7) General Nature of Business and Products _____

- 8) Estimated Start-up Date _____
- 9) Portable Source Registration. Include a completed copy of the Portable Equipment Registration and Relocation Form along with this application (please use the attached copy).
- 10) Name and Title of Owner or Responsible Official _____

ROCK CRUSHER INFORMATION

- 1) *Primary Crusher*
Manufacturer _____
Type Crusher (jaw, cone, etc.) _____
Date of Manufacture _____
Maximum Capacity (tons/hour) _____
- 2) *Secondary Crusher*
Manufacturer _____
Type Crusher (jaw, cone, etc.) _____
Date of Manufacture _____
Maximum Capacity (tons/hour) _____

3) *Tertiary Crusher*

Manufacturer _____

Type Crusher (jaw, cone, etc.) _____

Date of Manufacture _____

Maximum Capacity (tons/hour) _____

4) *Additional Crusher(s)*

Manufacturer _____

Type(s) Crusher(s) (jaw, cone, etc.) _____

Date of Manufacture _____

Maximum Capacity (tons/hour) _____

5) Is this facility an NSPS-affected facility? ____ (yes or no)

To determine if the facility is a New Source Performance Standards (NSPS) affected facility, consider the following. Was any crusher, grinding mill, screening operation, bucket elevator, belt conveyor, enclosed truck or rail car loading station, bagging operation, or storage bin constructed, reconstructed, or modified after August 31, 1983; such that the equipment becomes an affected facility as defined in *40 Code of Federal Regulations*, Part 60, Section 670 (40 CFR 60.670), •Standards of Performance for Nonmetallic Mineral Processing Plants•? Modification and reconstruction are defined in 40 CFR 60.14 and 60.15 respectively. Attached for your convenience are copies of these regulations.

Standard Permits to Construct for rock crushers are issued based on information supplied in this Permit to Construct application. In order for DEQ to accelerate the permitting process, state-only provisions are incorporated into the permit which assume all facilities are NSPS-affected facilities, and are therefore subject to the provisions of that subpart (e.g., opacity limits). By accepting a Standard Permit to Construct, all state-only provisions and conditions are accepted regardless if equipment is subject to federal regulations. Also, please be aware that this Standard Permit will allow collocation with only one other permitted portable source which has also received a standard permit that specifically allows for collocation (i.e., rock crusher, concrete batch, or asphalt plant).

ELECTRICAL GENERATOR SET INFORMATION

1) Generator Set Manufacturer/Model _____

2) Maximum rated capacity of the generator _____ (hp or kW)

3) Generator fuel type _____ (gasoline or diesel, etc.)

4) Generator maximum fuel usage rate _____ (gal/hr)

5) Generator stack parameters:

Generator stack height from ground _____ (ft)

Generator stack inside diameter _____ (ft)

Generator stack exhaust flowrate _____ (acfm)

Generator stack exhaust gas temperature _____ (°F)

- 6) Generator Emission Factors. Specific emission factors for the generator engine exhaust may be provided for any of the following: particulate matter, NO_x, SO_x, CO, and/or TOC (i.e., lb/hp-hr or grams/hp-hr). These emission factors are generally available from the generator manufacturer. It is not required that these factors be included with the application; however, in most cases when specific factors are used instead of the EPA default values, the allowed hours of operation for the generator are higher.

DEQ's Standard Rock Crushing Permit to Construct analysis is based on conservative assumptions. Sources that do not propose operations consistent with these assumptions are not eligible for the Standard Permit to Construct and must supply additional information using forms furnished by DEQ. For more information contact the nearest DEQ Regional Office, as listed below.

In accordance with IDAPA 58.01.01.123 (Rules for the Control of Air Pollution in Idaho),

I, _____, certify, based on information and belief formed after reasonable inquiry, the statements and information in this application are true, accurate, and complete.

SIGNATURE _____ DATE _____

Completed application forms should be sent to the nearest DEQ Regional Office as given below:

Boise Regional Office

1445 N. Orchard
Boise, ID 83706-2239
(208) 373-0502 phone
(208) 373-0287 fax

Coeur d'Alene Regional Office

2110 Ironwood Parkway
Coeur d'Alene, ID 83814
(208) 769-1422 phone
(208) 769-1404 fax

Idaho Falls Regional Office

900 N. Skyline, Suite B
Idaho Falls, ID 83402
(208) 528-2650 phone
(208) 528-2605 fax

Lewiston Regional Office

1118 "F" Street
Lewiston, ID 83501
(208) 799-4370 phone
(208) 699-3451 fax

Pocatello Regional Office

224 South Arthur
Pocatello, ID 83204
(208) 236-6160 phone
(208) 236-6168 fax

Twin Falls Regional Office

601 Pole Line Road, Suite 2
Twin Falls, ID 83301
(208) 736-2190 phone
(208) 736-2194 fax

ATTACHMENTS:

Portable Equipment Registration and Relocation Form

**40 CFR 60, Section 670
Standards of Performance for Nonmetallic Mineral Processing Plants**

**40 CFR 60.14
Definition of Modification**

**40 CFR 60.15
Definition of Reconstruction**

NOTE: The attached rules are intended to provide assistance for the completion of the application. However, the attached rules may not be the latest version; the most current version can be obtained at www.access.gpo.gov/nara)



IDAHO DEPARTMENT OF ENVIRONMENTAL QUALITY
PORTABLE EQUIPMENT REGISTRATION AND RELOCATION FORM

COMPANY NAME: _____ PHONE NO.: _____

COMPANY MAILING ADDRESS: _____

NAME OF CONTACT PERSON: _____

Phone number (if different from above): _____

Signature: _____ Date: _____

PLANT TYPE (i.e., mfr. name, model no., etc.): _____

PERMIT TO CONSTRUCT OR OPERATING PERMIT NO.: _____ ISSUE DATE: _____

CURRENT PLANT LOCATION: _____

NEW PLANT LOCATION: _____

ESTIMATED DATES OF OPERATION AT NEW LOCATION (Month/Day/Year):

Startup: _____ End: _____

FUEL TYPE: _____

Have any major components of the plant or its air pollution control equipment been replaced or modified since the plant last operated? ____ No ____ Yes (If yes, explain below:)

Will the Plant be collocated with another rock crushing, concrete batch, or hot-mix asphalt plant at the new plant location?
____ No ____ Yes (If yes, provide the following regarding the other plant:)

Name of the other company: _____

Type of plant: ____ Crusher ____ Hot-Mix Asphalt ____ Concrete Batch

The Idaho Air Quality Permit Number and Date for the other plant: _____

If plant will be operated in conjunction with a contract with the state of Idaho, please specify:

Contract No.: _____

State of Idaho Contact Person: _____ Phone No.: _____

THIS FORM MUST BE SUBMITTED TEN (10) DAYS BEFORE PLANT IS RELOCATED.

A scaled plot plan identifying the property boundary of the new site must be included with this form.

**Mail to: PERF Processing Unit
Idaho DEQ - Air Quality
1410 North Hilton
Boise, Idaho 83706-1255**

40 CFR 60, Section 670
Standards of Performance for Nonmetallic Mineral Processing Plants

Sec. 60.670 Applicability and designation of affected facility.

(a)(1) Except as provided in paragraphs (a)(2), (b), (c), and (d) of this section, the provisions of this subpart are applicable to the following affected facilities in fixed or portable nonmetallic mineral processing plants: each crusher, grinding mill, screening operation, bucket elevator, belt conveyor, bagging operation, storage bin, enclosed truck or railcar loading station. Also, crushers and grinding mills at hot mix asphalt facilities that reduce the size of nonmetallic minerals embedded in recycled asphalt pavement and subsequent affected facilities up to, but not including, the first storage silo or bin are subject to the provisions of this subpart.

(2) The provisions of this subpart do not apply to the following operations: All facilities located in underground mines; and stand-alone screening operations at plants without crushers or grinding mills.

(b) An affected facility that is subject to the provisions of subpart F or I or that follows in the plant process any facility subject to the provisions of subparts F or I of this part is not subject to the provisions of this subpart.

(c) Facilities at the following plants are not subject to the provisions of this subpart:

(1) Fixed sand and gravel plants and crushed stone plants with capacities, as defined in Sec. 60.671, of 23 megagrams per hour (25 tons per hour) or less;

(2) Portable sand and gravel plants and crushed stone plants with capacities, as defined in Sec. 60.671, of 136 megagrams per hour (150 tons per hour) or less; and

(3) Common clay plants and pumice plants with capacities, as defined in Sec. 60.671, of 9 megagrams per hour (10 tons per hour) or less.

(d)(1) When an existing facility is replaced by a piece of equipment of equal or smaller size, as defined in Sec. 60.671, having the same function as the existing facility, the new facility is exempt from the provisions of Secs. 60.672, 60.674, and 60.675 except as provided for in paragraph (d)(3) of this section.

(2) An owner or operator complying with paragraph (d)(1) of this section shall submit the information required in Sec. 60.676(a).

(3) An owner or operator replacing all existing facilities in a production line with new facilities does not qualify for the exemption described in paragraph (d)(1) of this section and must comply with the provisions of Secs. 60.672, 60.674 and 60.675.

(e) An affected facility under paragraph (a) of this section that commences construction, reconstruction, or modification after August 31, 1983 is subject to the requirements of this part.

(f) Table 1 of this subpart specifies the provisions of subpart A of this part 60 that apply and those that do not apply to owners and operators of affected facilities subject to this subpart.

40 CFR 60.14
Definition of Modification

Sec. 60.14 Modification.

(a) Except as provided under paragraphs (e) and (f) of this section, any physical or operational change to an existing facility which results in an increase in the emission rate to the atmosphere of any pollutant to which a standard applies shall be considered a modification within the meaning of section 111 of the Act. Upon modification, an existing facility shall become an affected facility for each pollutant to which a standard applies and for which there is an increase in the emission rate to the atmosphere.

(b) Emission rate shall be expressed as kg/hr of any pollutant discharged into the atmosphere for which a standard is applicable. The Administrator shall use the following to determine emission rate:

(1) Emission factors as specified in the latest issue of "Compilation of Air Pollutant Emission Factors," EPA Publication No. AP-42, or other emission factors determined by the Administrator to be superior to AP-42 emission factors, in cases where utilization of emission factors demonstrate that the emission level resulting from the physical or operational change will either clearly increase or clearly not increase.

(2) Material balances, continuous monitor data, or manual emission tests in cases where utilization of emission factors as referenced in paragraph (b)(1) of this section does not demonstrate to the Administrator's satisfaction whether the emission level resulting from

the physical or operational change will either clearly increase or clearly not increase, or where an owner or operator demonstrates to the Administrator's satisfaction that there are reasonable grounds to dispute the result obtained by the Administrator utilizing emission factors as referenced in paragraph (b)(1) of this section. When the emission rate is based on results from manual emission tests or continuous monitoring systems, the procedures specified in appendix C of this part shall be used to determine whether an increase in emission rate has occurred. Tests shall be conducted under such conditions as the Administrator shall specify to the owner or operator based on representative performance of the facility. At least three valid test runs must be conducted before and at least three after the physical or operational change. All operating parameters which may affect emissions must be held constant to the maximum feasible degree for all test runs.

(c) The addition of an affected facility to a stationary source as an expansion to that source or as a replacement for an existing facility shall not by itself bring within the applicability of this part any other facility within that source.

(d) [Reserved]

(e) The following shall not, by themselves, be considered modifications under this part:

(1) Maintenance, repair, and replacement which the Administrator determines to be routine for a source category, subject to the provisions of paragraph (c) of this section and Sec. 60.15.

(2) An increase in production rate of an existing facility, if that increase can be accomplished without a capital expenditure on that facility.

(3) An increase in the hours of operation.

(4) Use of an alternative fuel or raw material if, prior to the date any standard under this part becomes applicable to that source type, as provided by Sec. 60.1, the existing facility was designed to accommodate that alternative use. A facility shall be considered to be designed to accommodate an alternative fuel or raw material if that use could be accomplished under the facility's construction specifications as amended prior to the change. Conversion to coal required for energy considerations, as specified in section 111(a)(8) of the Act, shall not be considered a modification.

(5) The addition or use of any system or device whose primary function is the reduction of air pollutants, except when an emission control system is removed or is replaced by a system which the Administrator determines to be less environmentally beneficial.

(6) The relocation or change in ownership of an existing facility.

(f) Special provisions set forth under an applicable subpart of this part shall supersede any conflicting provisions of this section.

(g) Within 180 days of the completion of any physical or operational change subject to the control measures specified in paragraph (a) of this section, compliance with all applicable standards must be achieved.

(h) No physical change, or change in the method of operation, at an existing electric utility steam generating unit shall be treated as a modification for the purposes of this section provided that such change does not increase the maximum hourly emissions of any pollutant regulated under this section above the maximum hourly emissions

achievable at that unit during the 5 years prior to the change.

(l) Repowering projects that are awarded funding from the Department of Energy as permanent clean coal technology demonstration projects (or similar projects funded by EPA) are exempt from the requirements of this section provided that such change does not increase the maximum hourly emissions of any pollutant regulated under this section above the maximum hourly emissions achievable at that unit during the five years prior to the change.

(j)(1) Repowering projects that qualify for an extension under section 409(b) of the Clean Air Act are exempt from the requirements of this section, provided that such change does not increase the actual hourly emissions of any pollutant regulated under this section above the actual hourly emissions achievable at that unit during the 5 years prior to the change.

(2) This exemption shall not apply to any new unit that:

(i) Is designated as a replacement for an existing unit;

(ii) Qualifies under section 409(b) of the Clean Air Act for an extension of an emission limitation compliance date under section 405 of the Clean Air Act; and

(iii) Is located at a different site than the existing unit.

(k) The installation, operation, cessation, or removal of a temporary clean coal technology demonstration project is exempt from the requirements of this section. A temporary clean coal control technology demonstration project, for the purposes of this section is a clean coal

technology demonstration project that is operated for a period of 5 years or less, and which complies with the State implementation plan for the State in which the project is located and other requirements necessary to attain and maintain the national ambient air quality standards during the project and after it is terminated.

(l) The reactivation of a very clean coal-fired electric utility steam generating unit is exempt from the requirements of this section.

40 CFR 60.15
Definition of Reconstruction

Sec. 60.15 Reconstruction.

(a) An existing facility, upon reconstruction, becomes an affected facility, irrespective of any change in emission rate.

(b) "Reconstruction" means the replacement of components of an existing facility to such an extent that:

(1) The fixed capital cost of the new components exceeds 50 percent of the fixed capital cost that would be required to construct a comparable entirely new facility, and

(2) It is technologically and economically feasible to meet the applicable standards set forth in this part.

(c) "Fixed capital cost" means the capital needed to provide all the depreciable components.

(d) If an owner or operator of an existing facility proposes to replace components, and the fixed capital cost of the new components exceeds 50 percent of the fixed capital cost that would be required to construct a comparable entirely new facility, he shall notify the Administrator of the proposed replacements. The notice must be postmarked 60 days (or as soon as practicable) before construction of the replacements is commenced and must include the following information:

(1) Name and address of the owner or operator.

(2) The location of the existing facility.

(3) A brief description of the existing facility and the components which are to be replaced.

(4) A description of the existing air pollution control equipment and the proposed air pollution control equipment.

(5) An estimate of the fixed capital cost of the replacements and of constructing a comparable entirely new facility.

(6) The estimated life of the existing facility after the replacements.

(7) A discussion of any economic or technical limitations the facility may have in complying with the applicable standards of performance after the proposed replacements.

(e) The Administrator will determine, within 30 days of the receipt of the notice required by paragraph (d) of this section and any additional information he may reasonably require, whether the proposed replacement constitutes reconstruction.

(f) The Administrator's determination under paragraph (e) shall be based on:

(1) The fixed capital cost of the replacements in comparison to the fixed capital cost that would be required to construct a comparable entirely new facility;

(2) The estimated life of the facility after the replacements compared to the life of a comparable entirely new facility;

(3) The extent to which the components being replaced cause or contribute to the emissions from the facility; and

(4) Any economic or technical limitations on compliance with applicable standards of performance which are inherent in the proposed replacements.

(g) Individual subparts of this part may include specific provisions which refine and delimit the concept of reconstruction set forth in this section.